

Abstract of the Disclosure

The invention concerns a quantum cascade laser, comprising a substrate, a stack of layers, having a prismatic shape with substantially trapezoidal cross-section, comprising a lower surface arranged on the substrate, an upper surface
5 and lateral surfaces, said stack forming a gain region and two walls between which the region is interposed, two electrodes arranged on either side of the stack, one of which is formed by an electrically conductive material layer covering at least partially the surface of the stack opposite the substrate, and an electrically insulating layer interposed between the two electrodes. The invention
10 is characterised in that the electrically insulating layer completely covers the lateral surfaces of the prism, without overlapping on the upper surface, and its thickness is equal to at least a third of the stack thickness.